

### Abstract

The present invention provides a nonlinear adaptive voltage positioning DC-DC converter method and apparatus that enable improved voltage transient response under changing current conditions for a load with known current draw characteristics. The invention in some embodiments provides that the nonlinear adaptive voltage positioning be adaptable or configurable to a specific, known current load range that comprises less than the full current range that may be provided by the DC-DC converter, to optimize voltage transient response for a particular known load.

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